

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651632

Luminaire Tested: **GALN-SA9D-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58875.9 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

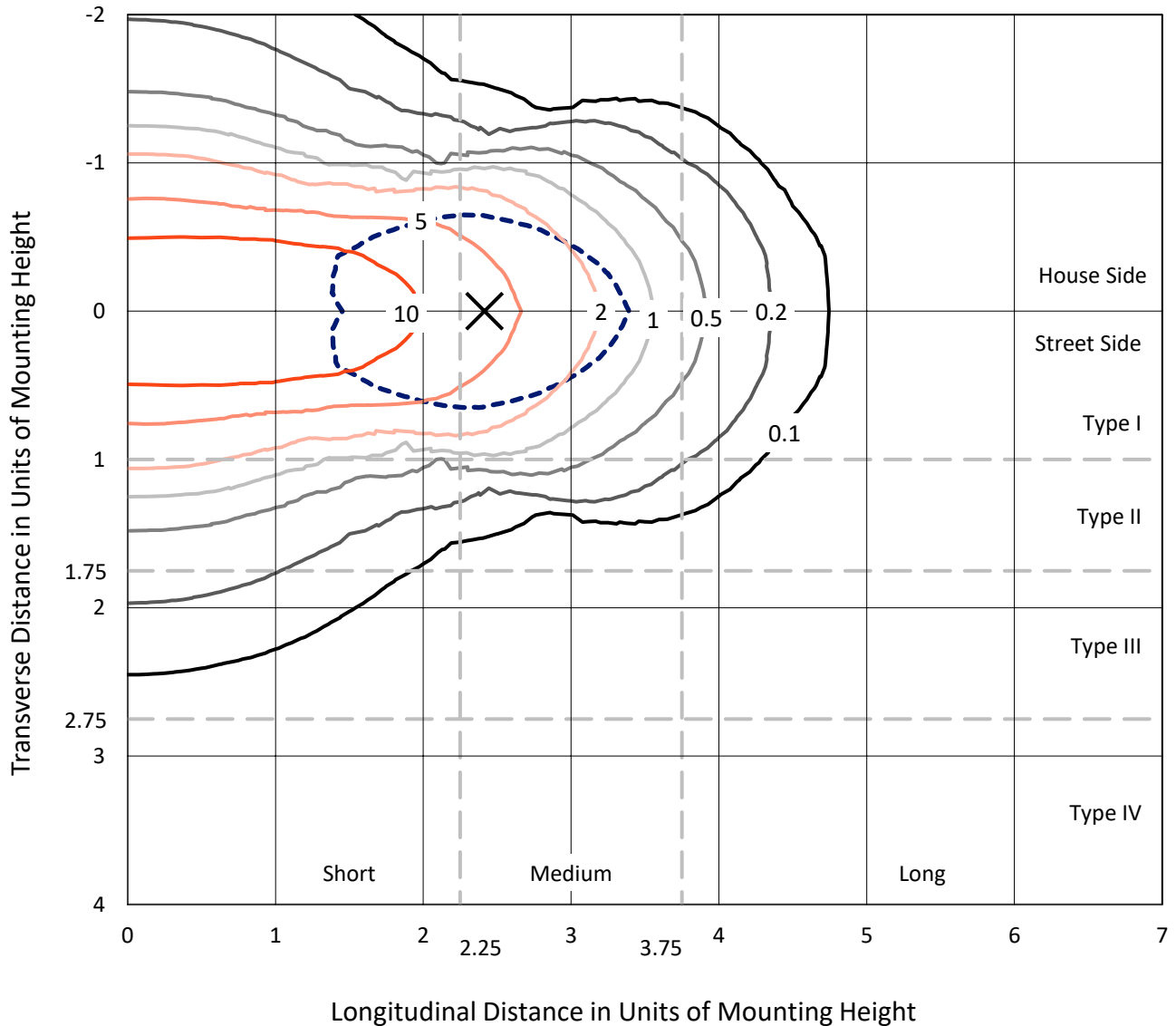
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

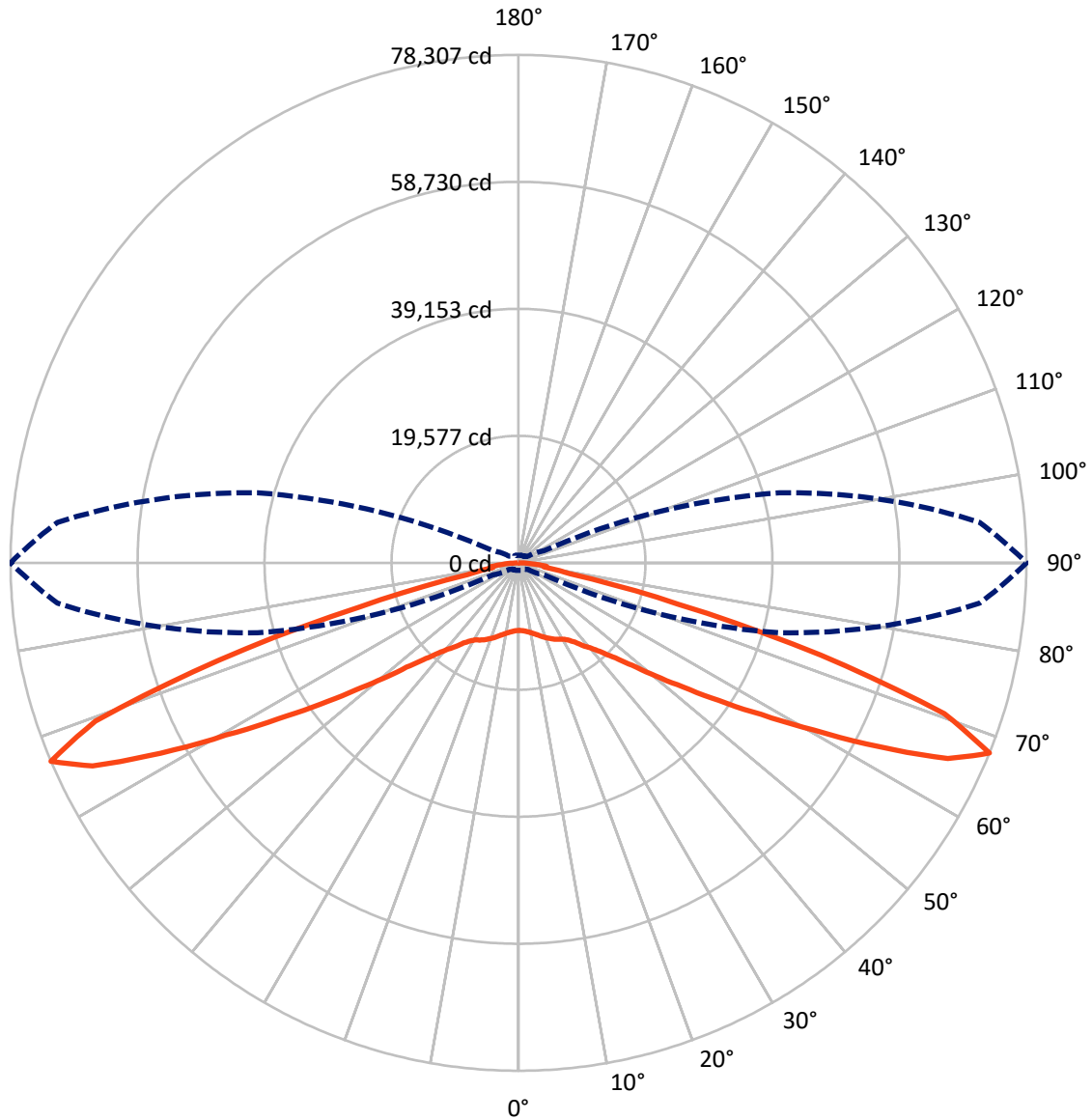
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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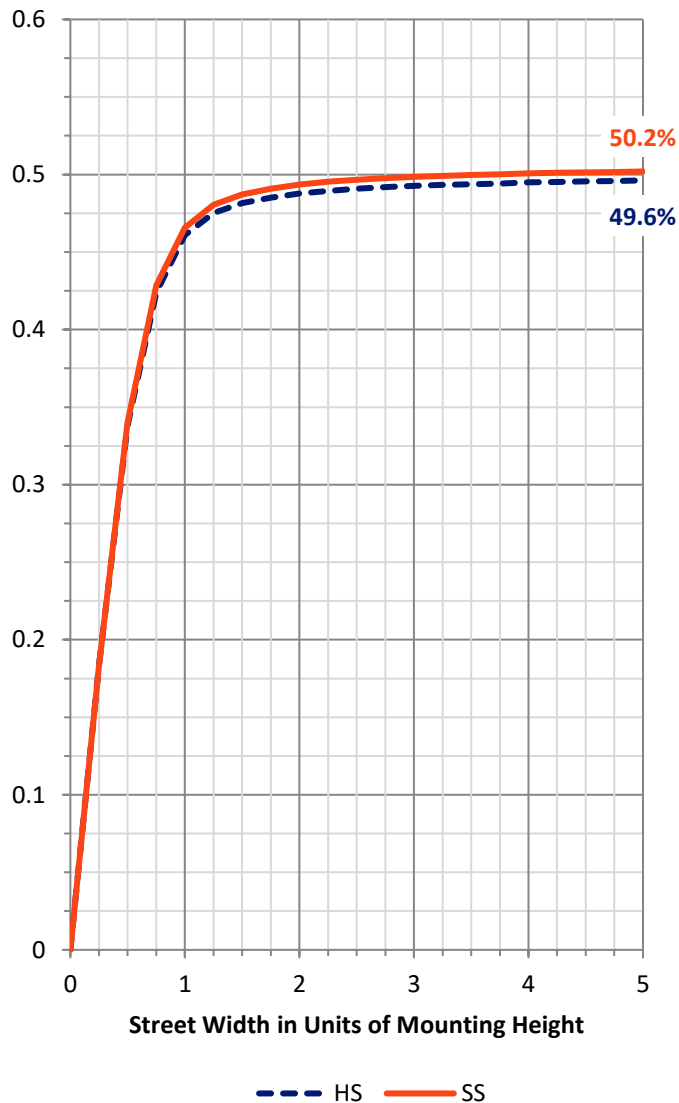
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29437.9	0.0	29437.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29437.9	0.0	29437.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	58875.9	0.0	58875.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1039.2	1.8
10°-20°	3324.7	5.6
20°-30°	5564.8	9.5
30°-40°	7538.8	12.8
40°-50°	9549.1	16.2
50°-60°	11929.3	20.3
60°-70°	14022.3	23.8
70°-80°	5364.2	9.1
80°-90°	543.4	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	58875.9	100.0
0°-180°	58875.9	100.0

Coefficient of Utilization

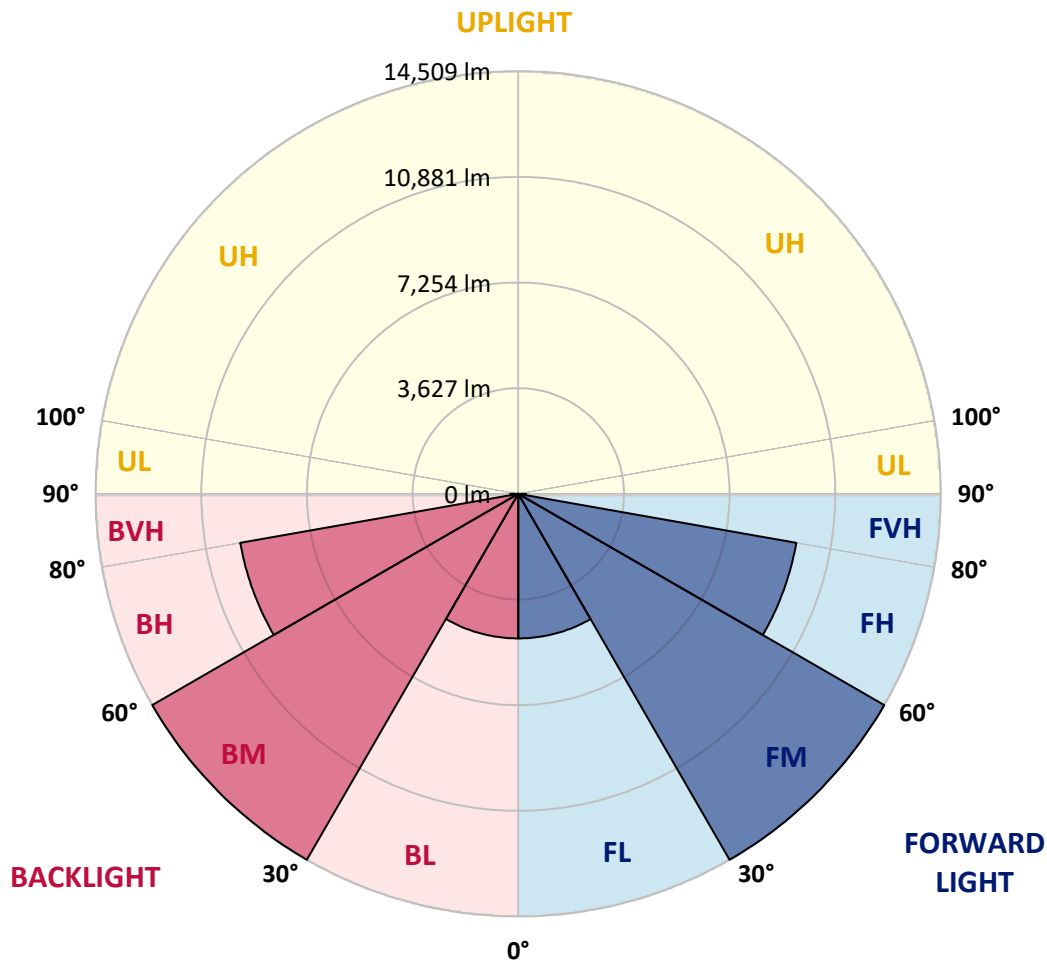


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4964.3	8.4			
FM (30°-60°)	14508.6	24.6			
FH (60°-80°)	9693.3	16.5			G4/12000
FVH (80°-90°)	271.7	0.5			G3/500
BL (0°-30°)	4964.3	8.4	B4/5000		
BM (30°-60°)	14508.6	24.6	B5		
BH (60°-80°)	9693.3	16.5	B5		G5
BVH (80°-90°)	271.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10422.8	10422.8	10422.8	10422.8	10422.8	10422.8	10422.8	10422.8	10422.8	10422.8	10422.8
2.5°	10556.6	10550.0	10553.3	10550.0	10559.8	10553.3	10514.2	10481.6	10455.5	10458.8	10448.9
5°	10781.5	10784.7	10788.0	10771.7	10794.5	10781.5	10719.6	10667.4	10615.2	10595.7	10589.1
7.5°	10967.3	10983.6	10993.4	11009.7	11048.8	11048.8	11016.3	10941.2	10827.1	10761.9	10758.7
10°	11153.2	11166.2	11195.6	11247.7	11312.9	11374.9	11361.8	11260.7	11114.1	11003.1	10977.1
12.5°	11218.4	11234.7	11332.5	11482.4	11629.2	11749.8	11749.8	11668.3	11479.1	11309.6	11260.7
15°	10990.1	11019.5	11195.6	11515.1	11899.7	12163.8	12222.5	12108.4	11906.3	11645.4	11586.8
17.5°	10537.0	10608.7	10866.2	11339.0	11977.9	12525.7	12695.2	12639.8	12379.0	12046.5	11977.9
20°	10051.2	10129.4	10403.3	11029.3	11912.8	12737.6	13229.9	13243.0	12920.2	12437.6	12336.6
22.5°	9516.5	9575.2	9927.3	10660.9	11717.1	12786.5	13689.5	13914.5	13477.7	12828.9	12685.5
25°	8916.6	8981.9	9350.2	10142.5	11348.8	12731.1	14110.1	14605.7	14061.3	13246.2	13063.6
27.5°	8342.9	8369.0	8763.4	9568.7	10863.0	12587.7	14419.9	15241.4	14706.7	13591.8	13360.3
30°	7791.9	7853.8	8202.7	8998.2	10305.5	12307.3	14687.2	15965.2	15401.2	13953.7	13657.0
32.5°	7208.3	7283.3	7661.5	8466.8	9748.0	11886.7	14850.2	16757.4	16369.5	14540.5	14224.3
35°	6647.5	6696.5	7077.9	7860.3	9203.6	11397.7	14879.6	17650.7	17618.1	15430.5	15010.0
37.5°	6073.8	6145.4	6530.2	7280.0	8626.5	10879.3	14732.9	18599.5	19124.3	16666.2	16213.0
40°	5522.8	5584.7	5962.9	6719.3	7971.2	10246.8	14384.0	19466.6	20881.6	17937.6	17295.3
42.5°	4922.9	4939.2	5353.2	6122.6	7328.9	9513.3	13882.0	20239.3	22841.0	19642.7	18844.0
45°	4241.5	4283.9	4668.6	5425.0	6592.1	8691.7	13200.6	20878.3	25325.3	22006.4	20917.4
47.5°	3560.1	3596.0	3948.1	4694.7	5786.8	7749.5	12150.8	21439.1	27874.7	25009.0	23581.1
50°	2895.1	2914.7	3201.5	3863.3	4880.5	6758.4	10850.0	21618.4	30756.7	29260.3	27437.9
52.5°	2288.7	2318.0	2536.5	3054.8	3912.2	5588.0	9444.8	21175.0	34121.3	34300.6	31731.5
55°	1855.1	1864.8	2027.8	2409.3	3058.0	4362.2	7749.5	19939.4	37740.1	40759.1	37482.5
57.5°	1597.5	1604.0	1695.3	1907.2	2353.9	3289.6	6011.8	17601.8	40990.5	48326.0	44113.8
60°	1450.8	1454.1	1506.2	1630.1	1864.8	2523.4	4306.8	14302.5	44198.6	56747.1	52355.6
62.5°	1359.5	1359.5	1395.4	1463.8	1578.0	1936.6	3120.0	10318.6	46396.0	65292.0	62514.4
65°	1271.5	1271.5	1297.6	1346.4	1408.4	1584.4	2304.9	6729.1	46340.5	71515.8	72731.9
67.5°	1170.4	1170.4	1190.0	1238.9	1274.7	1362.8	1780.1	4407.8	41626.2	71378.9	78306.8
70°	1049.8	1049.8	1075.9	1118.3	1147.6	1203.1	1405.1	3015.7	30580.7	60946.2	69641.2
72.5°	929.1	932.4	948.7	991.1	1013.9	1046.5	1167.1	2112.6	18759.2	41499.1	48694.4
75°	795.5	802.0	818.3	860.7	880.3	893.3	984.6	1506.2	9490.4	22374.8	25475.2
77.5°	642.3	655.3	665.1	710.7	723.8	743.4	811.8	1088.9	4166.6	8039.6	8111.4
80°	469.4	485.8	515.1	557.5	567.3	580.3	619.4	772.6	1887.6	3671.0	3987.3
82.5°	345.6	368.4	332.5	388.0	388.0	371.6	436.9	518.4	867.2	3635.1	4349.1
85°	189.1	192.3	172.8	198.9	211.9	208.7	231.4	254.3	420.6	2425.6	2500.5
87.5°	45.7	48.9	52.1	62.0	75.0	75.0	81.5	71.7	136.9	785.7	449.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)